

HOW TO CONSTRUCT FIREPROOF RESIDENCES  
OF DOVETAIL HOLLOW TILE

# THE WHITACRE



## FIREPROOFING COMPANY

MANUFACTURERS OF A COMPLETE LINE OF  
HOLLOW TILE, FIRE CLAY FIREPROOFING,  
INCLUDING HOLLOW TILE FOR RESIDENCE CONSTRUCTION

CATALOGUE B.

FACTORY & GENERAL OFFICE, WAYNESBURG, OHIO.



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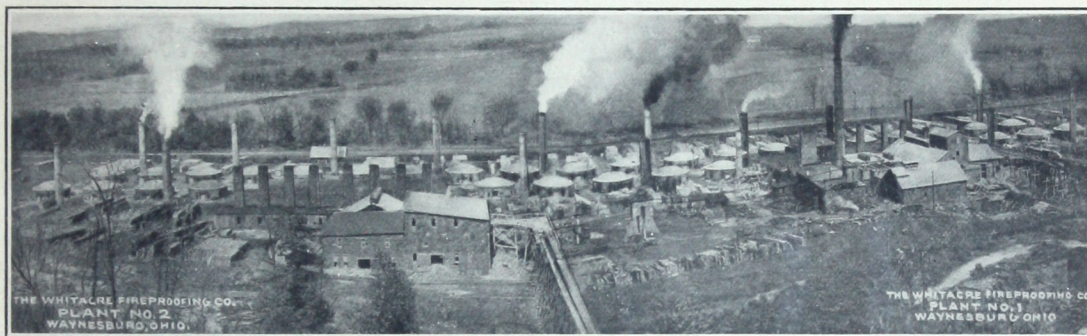


CCA



WITHOUT OUR ESTIMATE YOU HAVE NO COMPETITION.

# THE WHITACRE



Capacity of 12000 Tons per Month

## FIREPROOFING COMPANY

GENERAL OFFICE

WAYNESBURG, OHIO

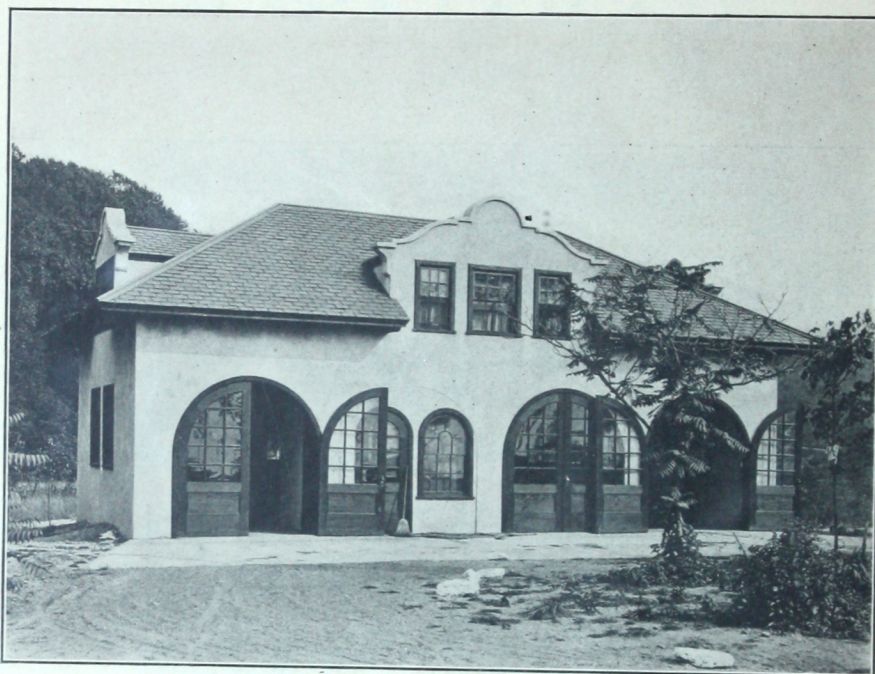
CHICAGO OFFICE  
538 SOUTH DEARBORN STREET

PITTSBURGH OFFICE  
7138 JENKINS BUILDING



WITHOUT OUR ESTIMATE YOU HAVE NO COMPETITION.

THE WHITACRE FIREPROOFING COMPANY, WAYNESBURG, OHIO.



Fire Station Constructed of Hollow Tile with Stucco Finish.

Tile Furnished by  
THE WHITACRE FIREPROOFING COMPANY  
Waynesburg, Ohio.

**T**HERE is no cause to worry over the rapidly diminishing supply of timber in our land—once considered absolutely essential for building and fuel. The “Hills of Ohio” have within their embrace the answer to the problem; coal for fuel and clay for building; clay, which when scientifically treated makes a building material that produces homes and business buildings, warmer in winter, cooler in summer, moisture, sound and vermin proof, enduring as the ages and absolutely FIREPROOF.



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THE WHITACRE FIREPROOFING COMPANY, WAYNESBURG, OHIO.

## THE REASON WHY YOU SHOULD USE THE WHITACRE FIRE CLAY TILE

The Chemical Analyses of The Whitacre Fire Clay:

% Silicia .....	58.75
% Oxide of Iron .....	2.57
% Alumina .....	26.43
% Lime .....	.37
% Magnesia .....	.77
% Potassium Oxide .....	1.49
% Sodium Oxide .....	.45
% Loss on Ignition .....	9.27
FIRE RESISTING FACTOR .....	12.44

1st. Because it is composed of

58.75% Silicia  
and  
26.43% Alumina.

The only two essential properties required to make a pure article.

The loss on ignition (meaning the evaporation of water) and other losses caused by burning is 9.27%, leaving only impurities of Oxide of Iron, Lime, Magnesia, Potassium Oxide and Sodium Oxide of 5.55%, or after the burning of the material we have left of the Alumina and Silica 85%. While the average of other clays used in the manufacture of this line of material have only from 60% to 65% of Alumina and Silica.

2d.—Because these clays are manufactured by The Whitacre Co. who give their plant their personal supervision—profiting by their experience of over twenty years actively engaged in the manufacture of clay products.

3d.—Because they are situated in the heart of the great clay section of the State of Ohio, which furnishes over 25% of the clay products of the U. S. Their two plants have a combined capacity of 12,000 tons per month, equipped with the latest clay machinery manufactured.

By owning and operating their own machine shop, where their dies are manufactured and any and all changes can be made to suit any special shape that may be required on the shortest notice and at least cost.

4th.—They are the largest independent Fireproofing Manufacturers in the United States.

There are no jobs too small for us to figure and none too large for us to handle.

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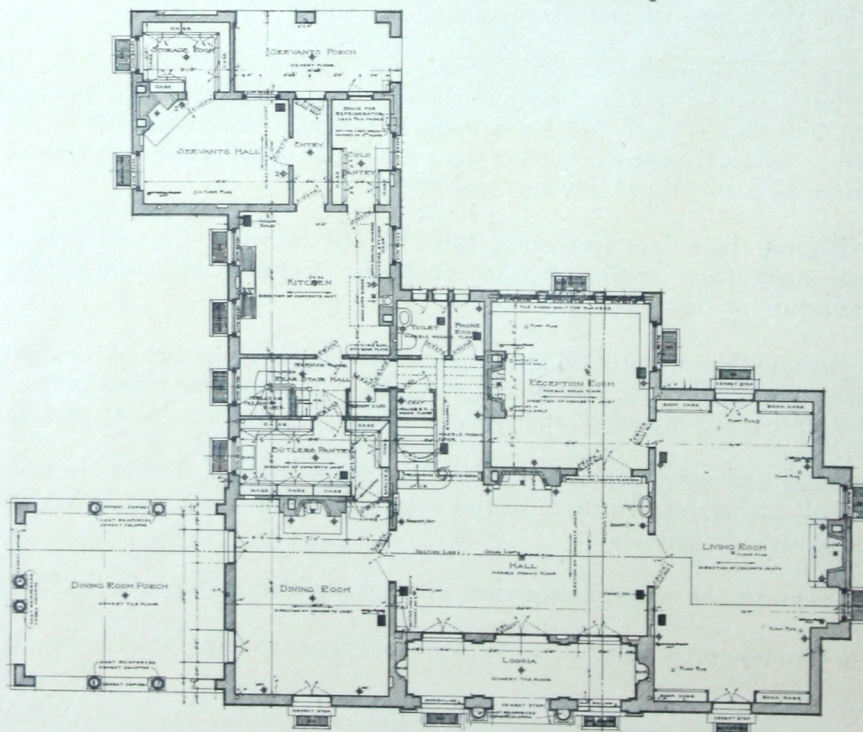
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THE WHITACRE FIREPROOFING COMPANY, WAYNESBURG, OHIO.



HOME OF MRS. D. H. WALLACE, SEWICKLEY, PA.

All the hollow tile in this building, including exterior walls, interior partitions, floor tile and tile for retaining wall, furnished complete by  
THE WHITACRE FIREPROOFING COMPANY, WAYNESBURG, OHIO.  
ROBERT MAURICE TRIMBLE, Architect, Pittsburgh.



FIRST FLOOR PLAN



WITHOUT OUR ESTIMATE YOU HAVE NO COMPETITION.

THE WHITACRE FIREPROOFING COMPANY, WAYNESBURG, OHIO.



Residence erected of Hollow Tile with Stucco finish. Tile furnished by  
THE WHITACRE FIREPROOFING COMPANY,  
Waynesburg, Ohio.

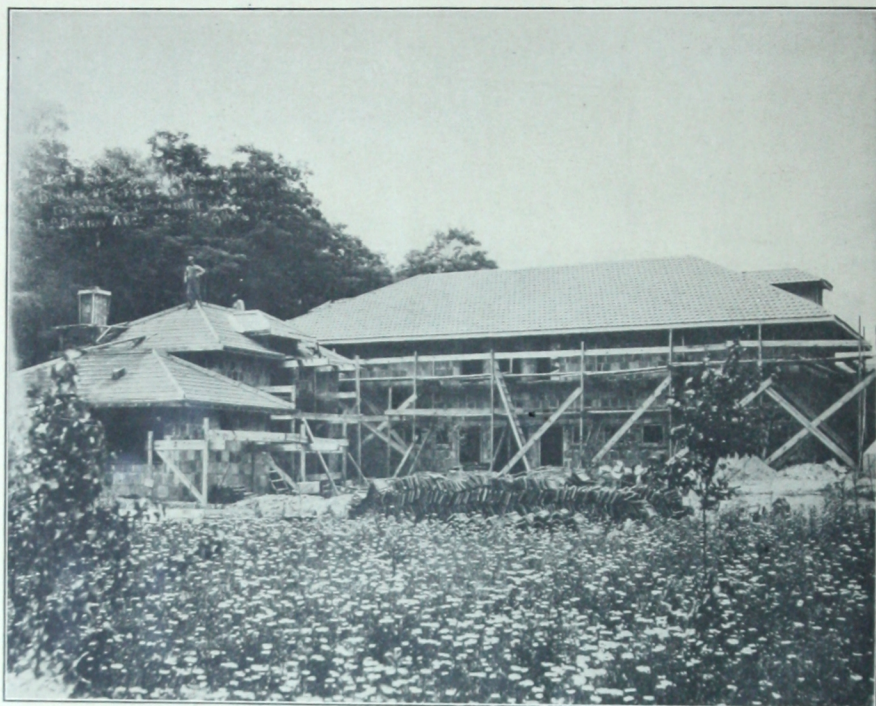


Residence erected of Hollow Tile with Stucco finish. Tile furnished by  
THE WHITACRE FIREPROOFING COMPANY,  
Waynesburg, Ohio.



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THE WHITACRE FIREPROOFING COMPANY, WAYNESBURG, OHIO.



Residence in course of Construction using Hollow Tile to be finished with Stucco.

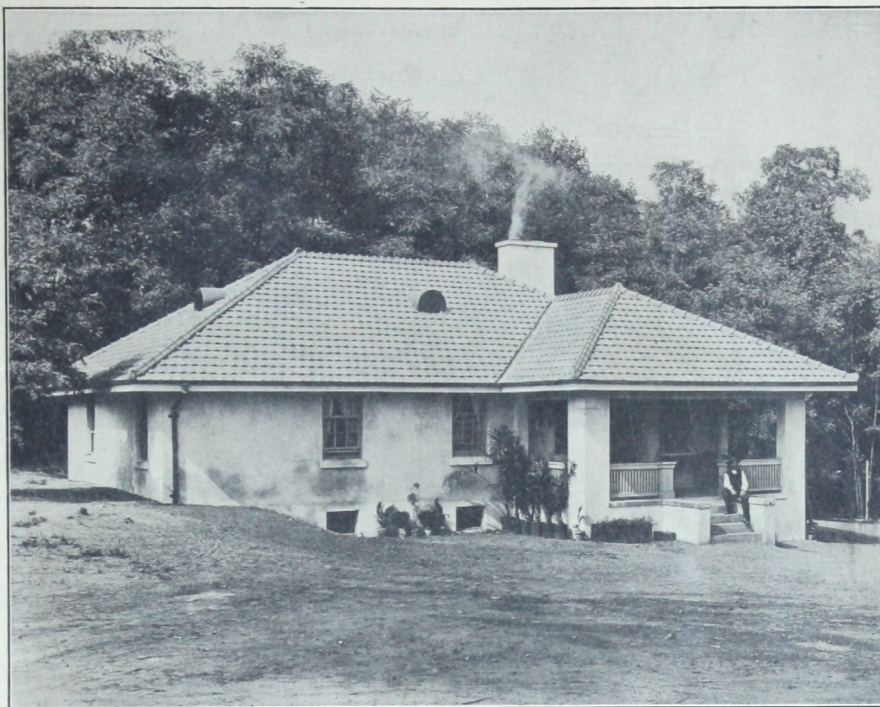


Residence Constructed of Hollow Tile ready for Stucco finish,



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THE WHITACRE FIREPROOFING COMPANY, WAYNESBURG, OHIO.



Bungalow Constructed of Hollow Tile with Stucco finish.



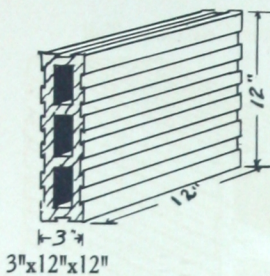
Bungalow Constructed of Hollow Tile with Stucco finish.



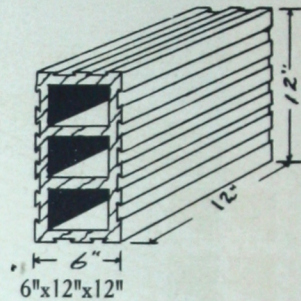
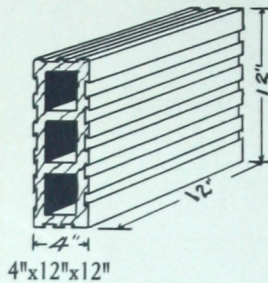
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THE WHITACRE FIREPROOFING COMPANY, WAYNESBURG, OHIO.

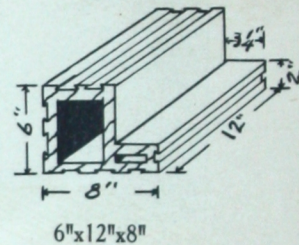
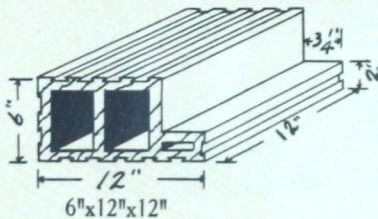
# SPECIAL HEAVY DOVE TAIL MATERIAL FOR STUCCO WORK AND OUTSIDE WALLS.



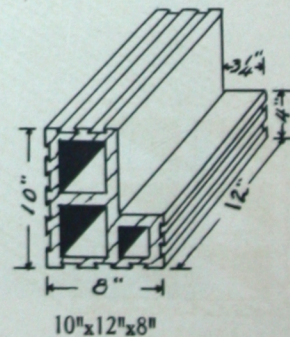
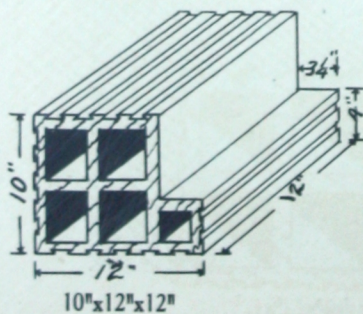
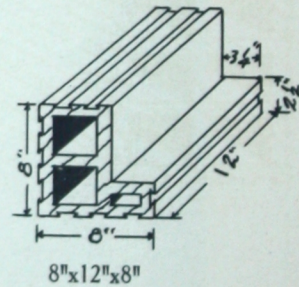
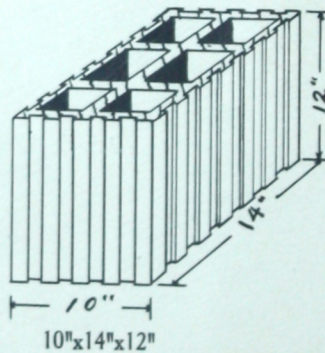
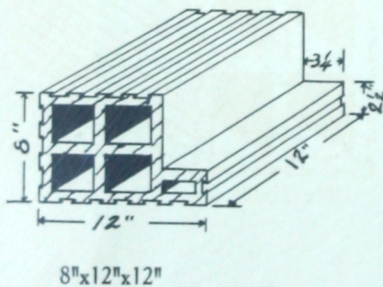
Jamb Blocks



Half Jamb Blocks



Corner Block for 10" Wall



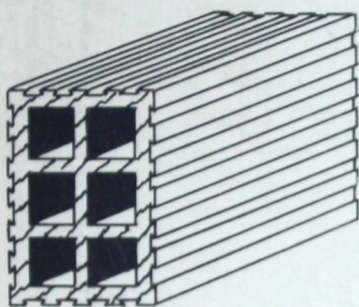


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THE WHITACRE FIREPROOFING COMPANY, WAYNESBURG, OHIO.

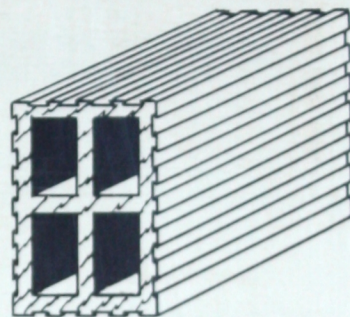
SPECIAL HEAVY DOVE TAIL MATERIAL FOR STUCCO  
WORK AND OUTSIDE WALLS.

Six Cell Dove Tail

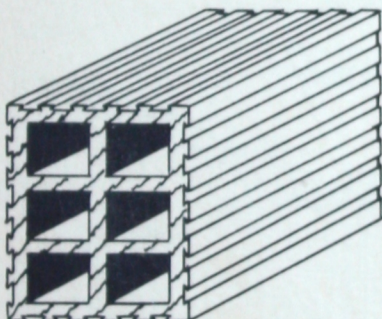


8"x12"x12"

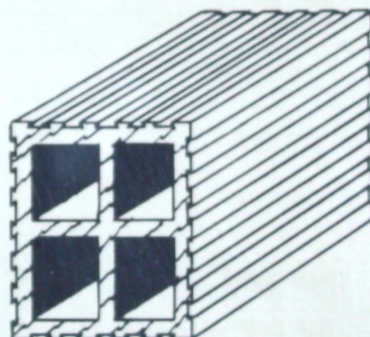
Four Cell Dove Tail



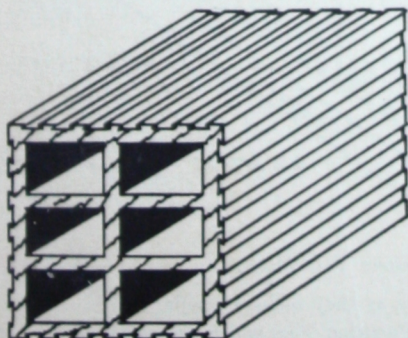
8"x12"x12"



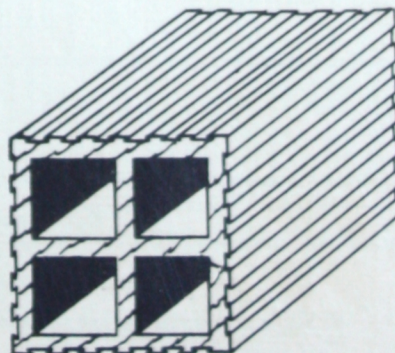
10"x12"x12"



10"x12"x12"



12"x12"x12"



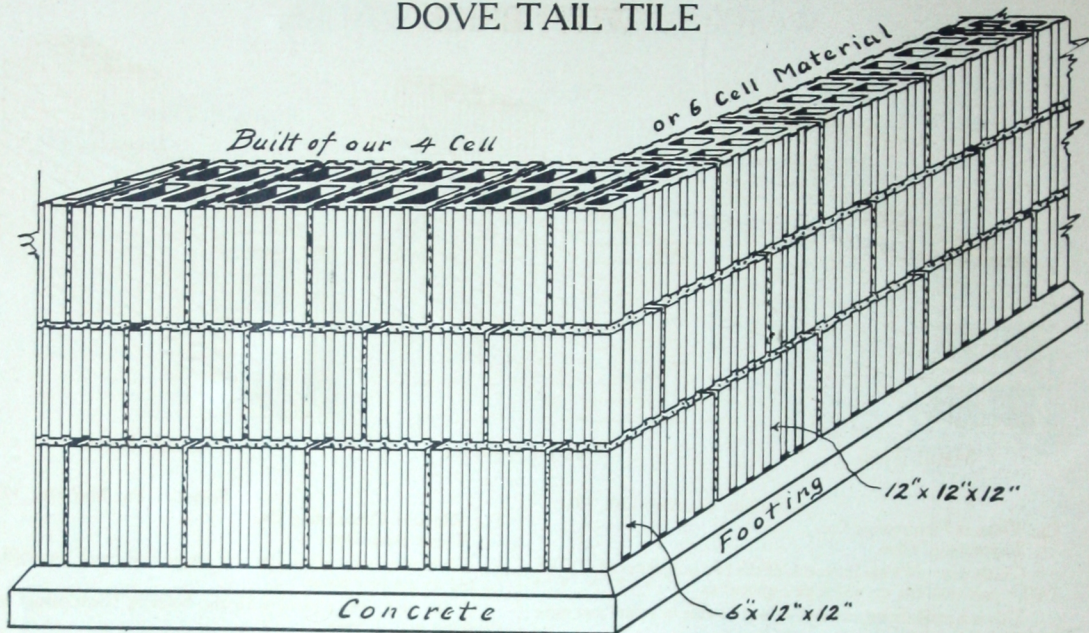
12"x12"x12"



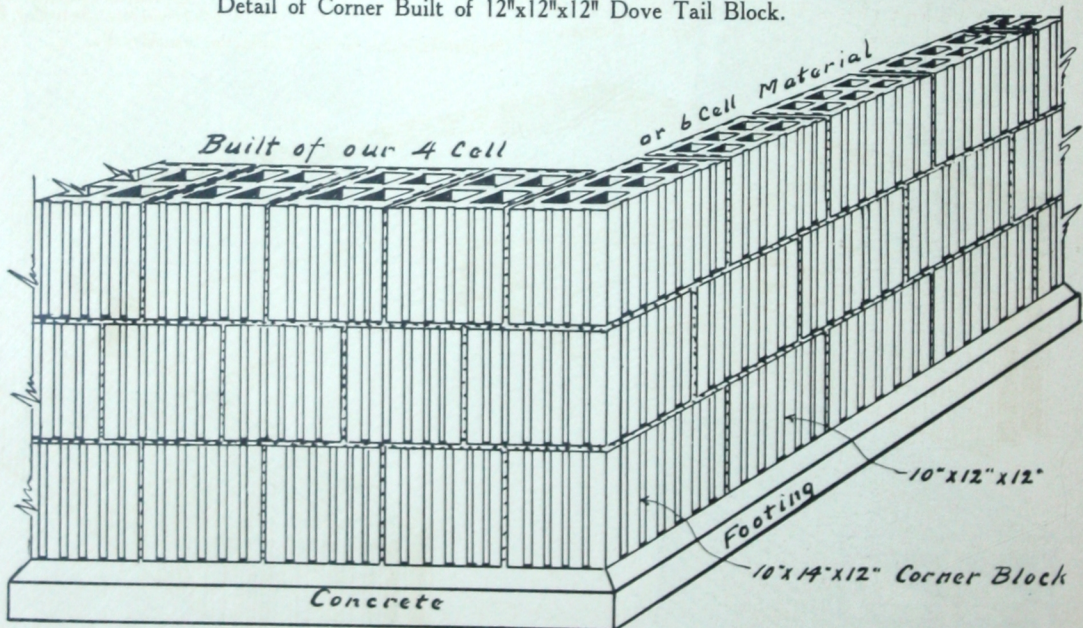
WITHOUT OUR ESTIMATE YOU HAVE NO COMPETITION.

THE WHITACRE FIREPROOFING COMPANY, WAYNESBURG, OHIO.

## DETAILS OF CORNER CONSTRUCTION WITH DOVE TAIL TILE



Detail of Corner Built of 12"x12"x12" Dove Tail Block.



Detail of Corner Built of 10"x12"x12" Dove Tail Block.

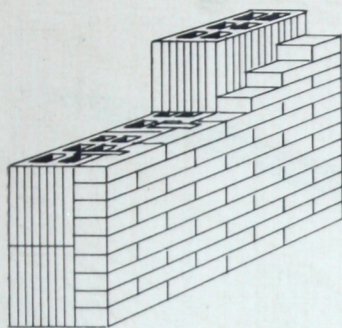
8" Walls and under do not require any Special Corner Block as they make a regular bond.  
Two story dwellings can also be built of our Standard Partition Tile, which are amply strong, and cheaper than with Dove Tail Material,



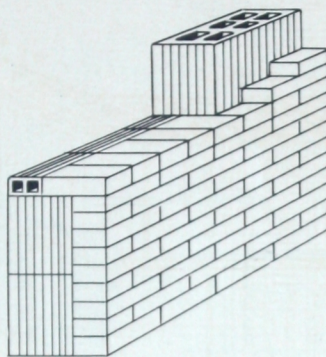
WITHOUT OUR ESTIMATE YOU HAVE NO COMPETITION.

THE WHITACRE FIREPROOFING COMPANY, WAYNESBURG, OHIO.

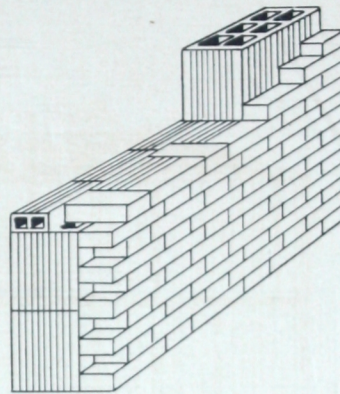
## HOLLOW BLOCK WALLS, VENEERED WITH BRICK



Metal Ties.



Header Courses.



Flemish Bond.

The Whitacre Fireproofing Co.,  
Waynesburg, Ohio.

Gentlemen:—We are in receipt of the two samples of 8" "DOVE  
TAIL" partition tile on which you quoted us \* \* \* \* \*

This is a magnificent tile and we will be able to secure you some  
business.

Yours very truly,

THE J. C. GRINNAN CO. INC.

By J. C. Grinnan.

Norfolk, Va., May 17th, 1911.

The Whitacre Fireproofing Co.,  
Waynesburg, Ohio.

Gentlemen:—Enclosed you will please find check for \$160.35  
for tile on my new house.

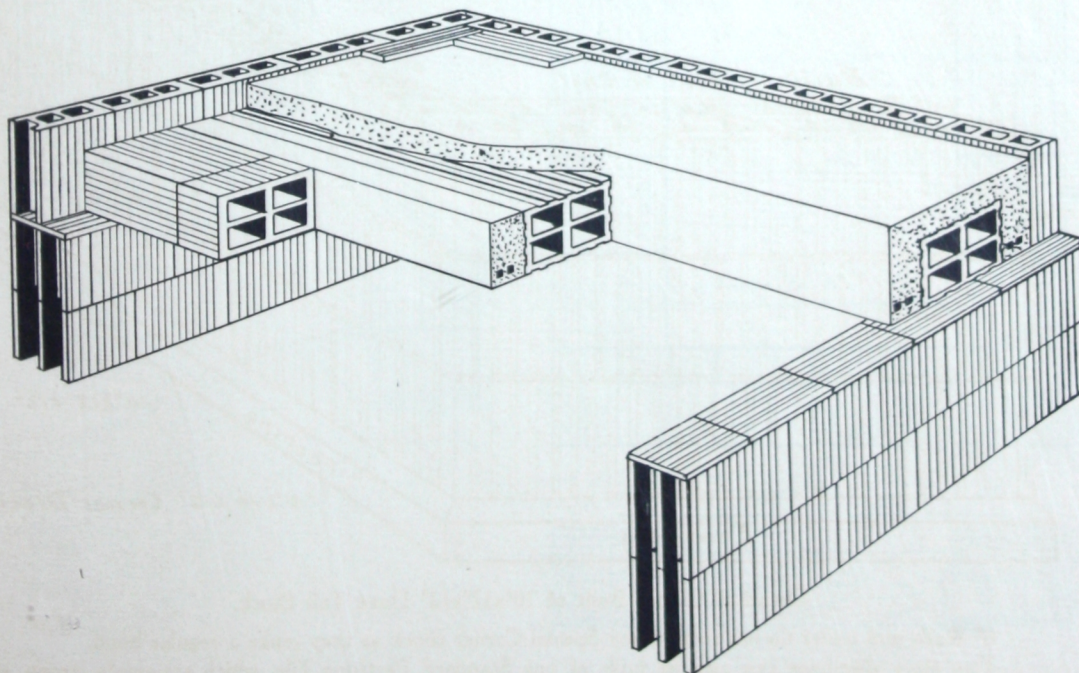
I am very well pleased with the building "Gentlemen," and  
thanking you, I remain,

Yours very truly,

EDWARD REIBERT,  
846 Nevin Ave., Sewickley, Pa.

Stephen Hawkins, General Contractor, Sewickley, Pa.

Sewickley, Pa., May 17th, 1911.



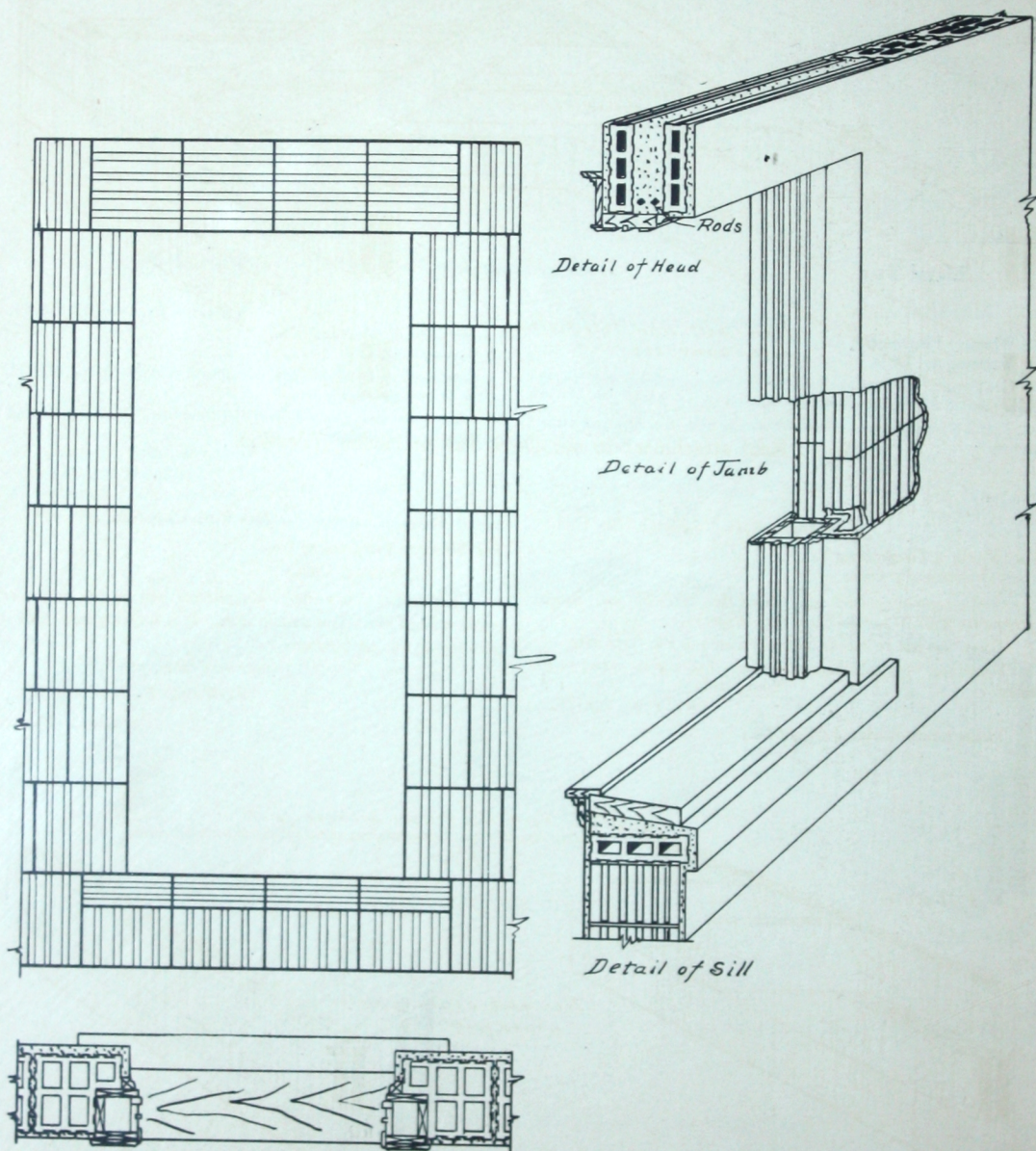
Combination Floor on Hollow Tile Walls.



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THE WHITACRE FIREPROOFING COMPANY, WAYNESBURG, OHIO.

DETAIL OF WINDOW BUILT OF OUR DOVE TAIL  
OR STANDARD MATERIAL.

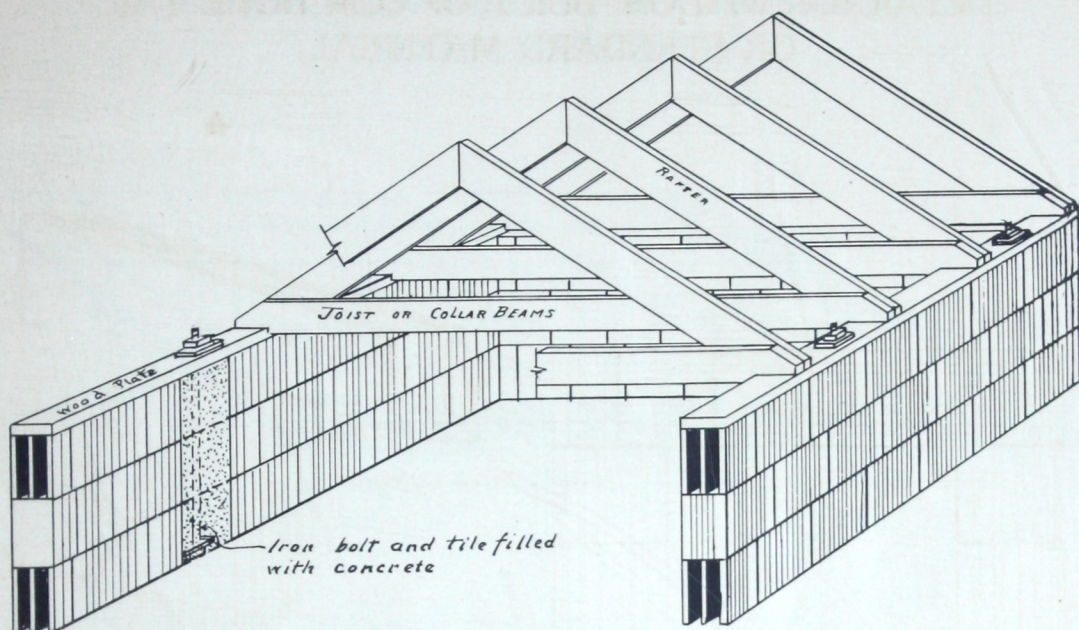


Section Thru Jamb.



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THE WHITACRE FIREPROOFING COMPANY, WAYNESBURG, OHIO.



Wood Roof attachment to our Dove Tail or Hollow Tile Wall.

Jamestown, N. Y., March 17th, 1911.

The Whitacre Fireproofing Co.,  
Waynesburg, Ohio.

Gentlemen:—Enclosed find check for \$215.27 and freight receipts for \$105.00 for the three cars of blocks.

There was not to exceed 30 broken ones in the three cars.

Find them very satisfactory and have had a great many to see them.

Yours truly,

FRED. W. FOOTE.

Please return receipted freight bills.

New York City, April 27th, 1911.

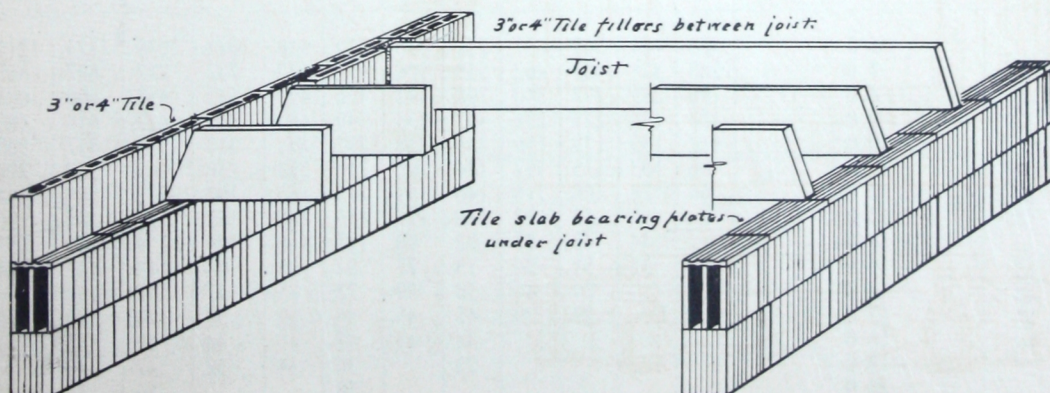
The Whitacre Fireproofing Co.,  
Waynesburg, Ohio.

Gentlemen:—Allow me to compliment you on the very nice broad webbed block you sent in here. It is a dandy and, take it from me, it will get business.

Yours very truly,

EDWARD E. BUHLER CO.

Per Edw. E. Buhler.



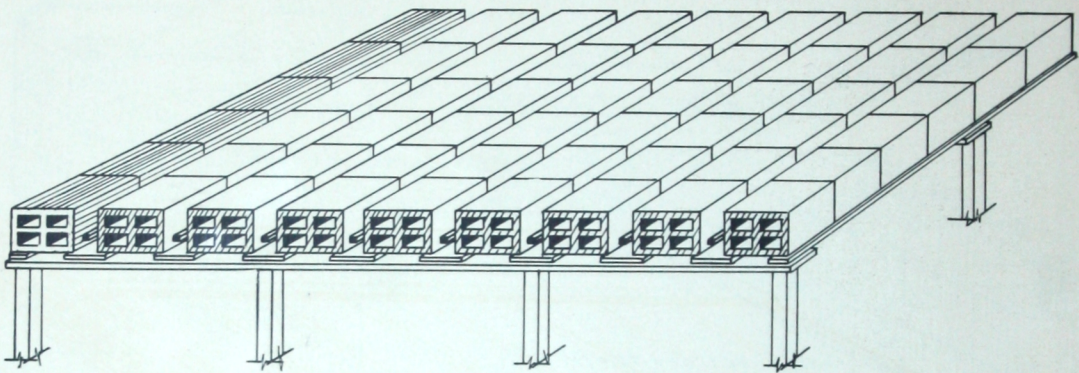
Wood floor joist on Dove Tail or Hollow Tile Wall.



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THE WHITACRE FIREPROOFING COMPANY, WAYNESBURG, OHIO.

## COMBINATION TILE AND CONCRETE LONG SPAN FLOOR.



### SAFE LIVE LOAD IN POUNDS PER SQUARE FOOT.

Reinforced with  $\frac{1}{2}$ "x $1\frac{1}{2}$ " KAHN TRUSSED BARS. 16" center to center.

Depth of Tile.....		4"	4"	6"	6"	8"	8"	10"	10"	10"	12"	12"	12"
Depth of top finish of Cement ..		1"	2"	1"	2"	1"	2"	0"	1"	2"	0"	1"	2"
Weight of floor in lbs. per sq. ft		38	50	47	59	56	68	54	66	78	63	75	87
LENGTH OF SPAN	6 0	378	464	565	651	752	838	852	938	1024	1039	1125	1211
	7 0	268	328	403	462	538	598	612	672	732	747	807	867
	8 0	196	239	297	340	398	442	456	499	542	557	600	643
	9 0	147	178	225	256	303	335	349	380	412	427	458	490
	10 0	112	135	173	196	235	258	272	295	319	334	357	380
	11 0	86	103	135	152	184	202	216	233	250	265	282	299
	12 0	66	78	106	118	146	159	173	185	197	212	225	237
	13 0	...	59	83	92	116	125	139	148	157	172	181	190
	14 0	...	44	65	71	92	98	112	118	124	139	145	151
	15 0	...	32	51	54	73	77	91	95	98	113	117	121
	16 0	...	...	39	41	58	59	73	75	77	92	94	96
	17 0	...	...	29	29	45	45	59	59	59	74	75	75
	18 0	...	...	...	...	34	33	47	45	44	59	58	57
	19 0	...	...	...	...	25	...	36	34	32	47	45	42
	20 0	...	...	...	...	...	...	28	...	...	36	33	30
	21 0	...	...	...	...	...	...	...	...	...	27	...	...



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THE WHITACRE FIREPROOFING COMPANY, WAYNESBURG, OHIO.

## LONG SPAN COMBINATION TILE AND CONCRETE FLOOR CONSTRUCTION.

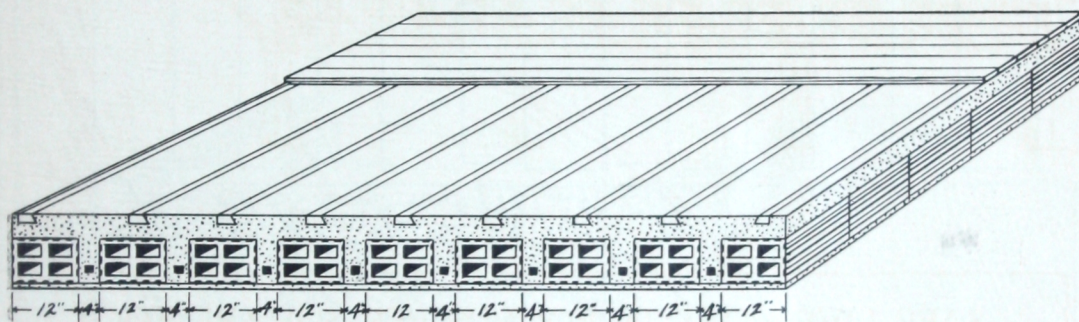
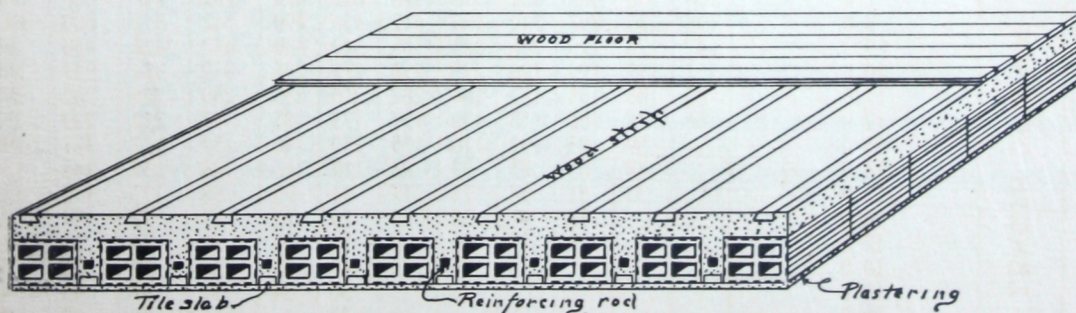


Table on page 14 is based on above spacing of tile



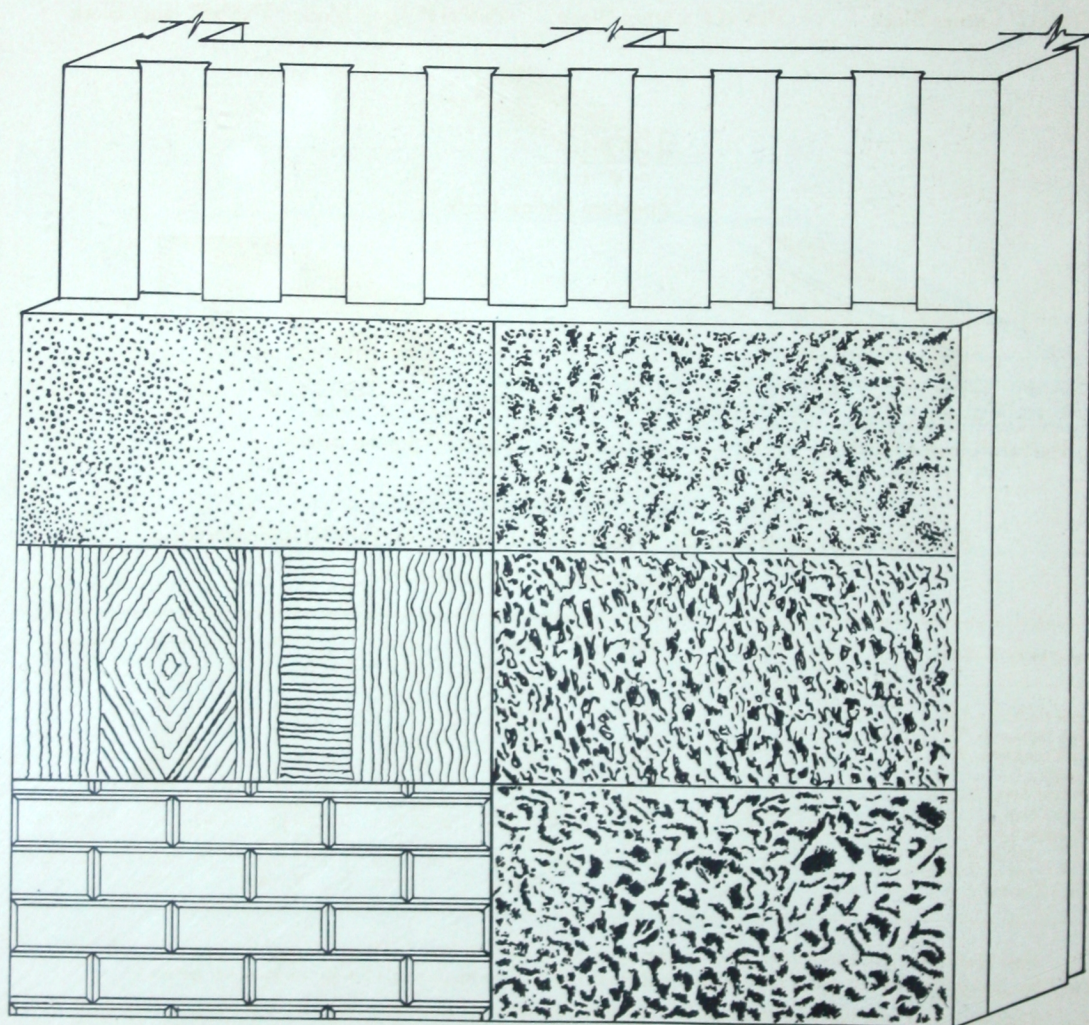
Above construction gives a continuous tile ceiling for plastering



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THE WHITACRE FIREPROOFING COMPANY, WAYNESBURG, OHIO.

SOME OF THE MANY FINISHES WHICH MAY BE APPLIED  
TO THE STUCCO HOUSE.

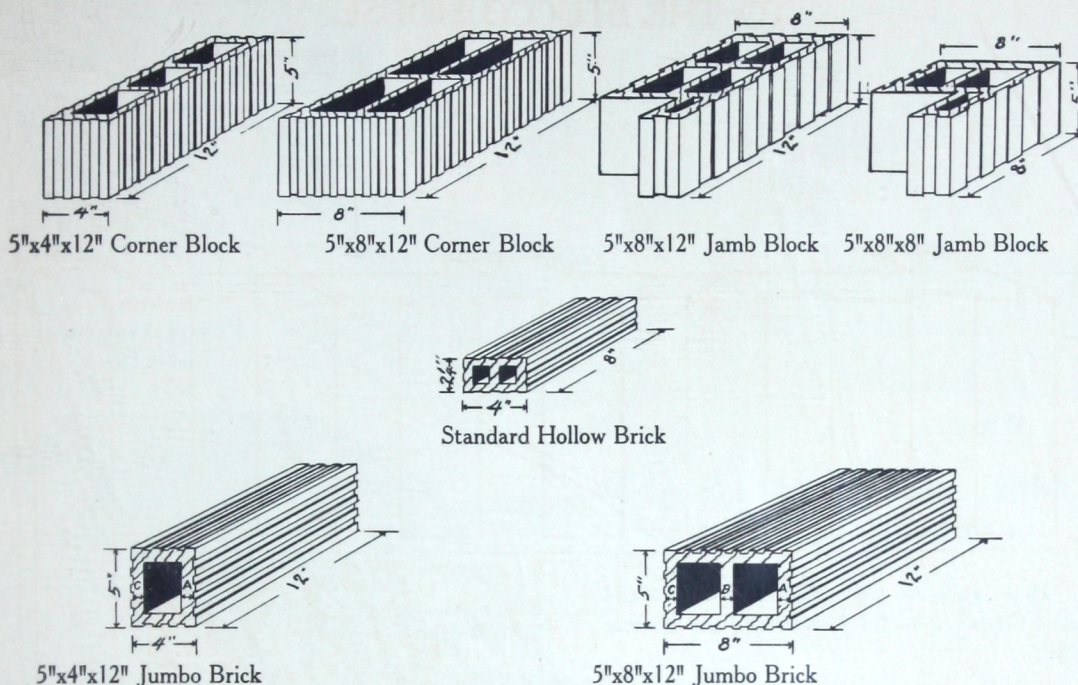




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THE WHITACRE FIREPROOFING COMPANY, WAYNESBURG, OHIO.

## JUMBO BRICK



Report of Tests made April 21, 1910, at Pittsburgh, Pa., by Gulick-Henderson & Co.,  
Inspecting Engineers, Pittsburgh, Pa.

Laboratory Test No. ....	16172	16173	16168	16169	16170	16171	Average
Shell thickness "A" .....	.8 in.	.8 in.	.75 in.	.70 in.	.75 in.	.75 in.	
Web thickness "B" .....	.75 in.	.75 in.	.75 in.	.75 in.	.75 in.	.75 in.	
Shell thickness "C" .....	.8 in.	.8 in.	.70 in.	.70 in.	.75 in.	.75 in.	
Length .....	12.0 in.	12.0 in.	11.80 in.	12.00 in.	12.00 in.	12.00 in.	
Section Area .....	19.2 sq. in.	1.92 sq. in.	25.9 sq. in.	25.8 sq. in.	27. sq. in.	27. sq. in.	
First Crack .....	41650 lb.	43830 lb.	86550 lb.	90000 lb.	83160 lb.	79490 lb.	84800 lb.
Ultimate Load .....	116230 lb.	118620 lb.	144810 lb.	120450 lb.	136290 lb.	146070 lb.	136900 lb.
" per sq. in. net section .....	6053 lb.	6178 lb.	5590 lb.	4668 lb.	5047 lb.	5410 lb.	5178 lb.
" per sq. ft. total area .....	174 tons	177 tons	108.6 tons	90.3 tons	102.2 tons	109.5 tons	102.6 tons
Time Elapsed .....	7 min.	10 min.	19 min.	11 min.	9 min.	8 min.	

Note—Safe load of common brick work in cement mortar by the Cleveland Building Code is 10 ton per sq. ft. Safe load of our Fire Clay Jumbo Brick by test with a factor of safety of ten is 10.2 tons per sq. ft. or 517 lbs. per sq. in. of net section.

Tests were made on a standard Reihle machine of 150,000 lb. capacity. Brick were imbedded in plaster of Paris and soft plaster of Paris put on the top. The head of the machine was then run down and the plaster brought to a smooth parallel plane. The brick was then allowed to stand an hour before being tested.

GULICK-HENDERSON & CO.,

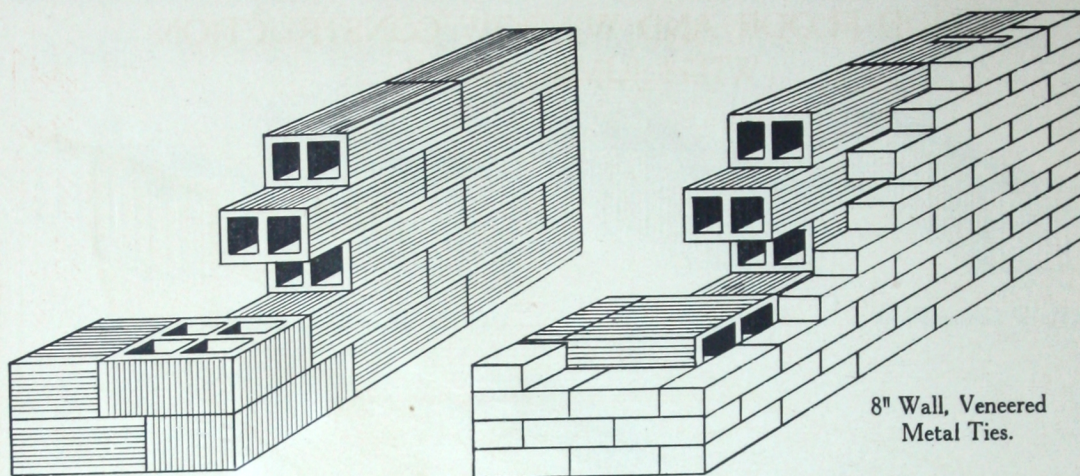
*W. G. Inelana*

Chief Chemist.



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THE WHITACRE FIREPROOFING COMPANY, WAYNESBURG, OHIO.

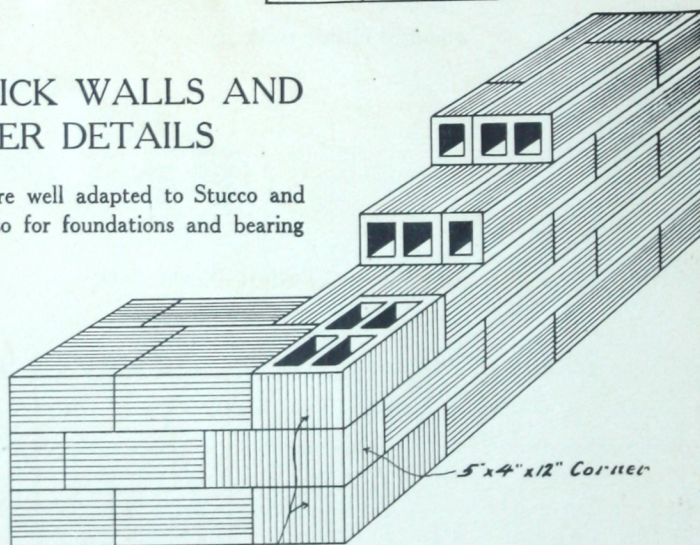


8" Wall.

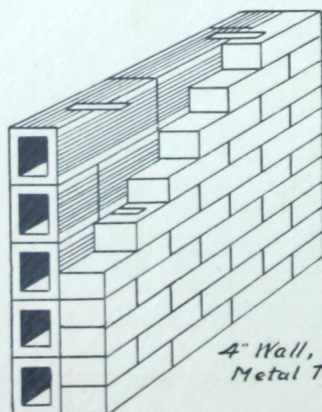
8" Wall, Veneered  
Metal Ties.

## JUMBO BRICK WALLS AND CORNER DETAILS

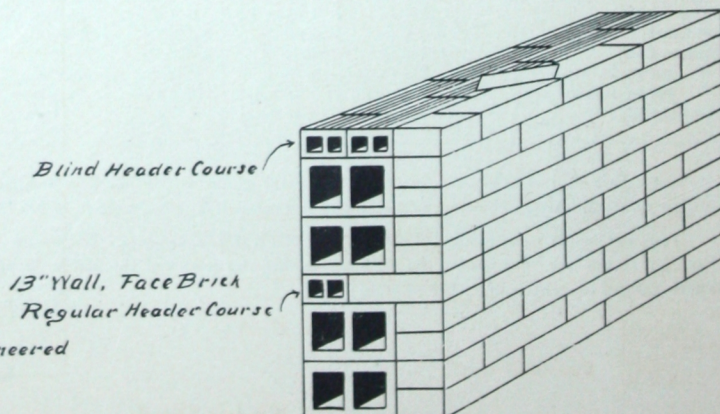
These walls are well adapted to Stucco and similar finishes, also for foundations and bearing walls.



5" x 8" x 12" Corner  
13" Wall. 8" and 4".



4" Wall, Veneered  
Metal Ties



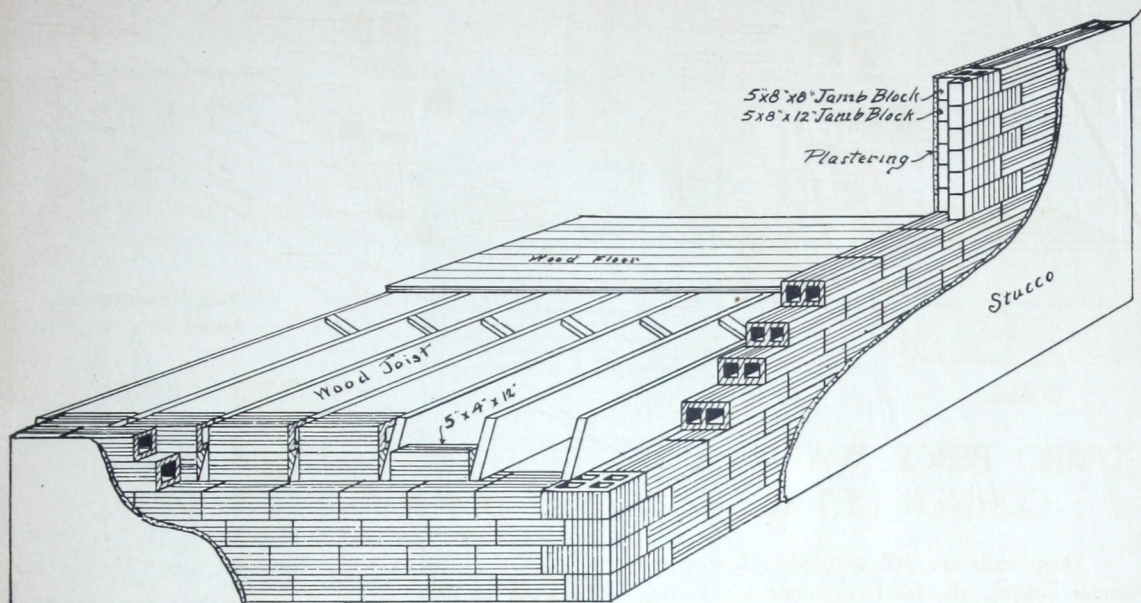
13" Wall, Face Brick  
Regular Header Course



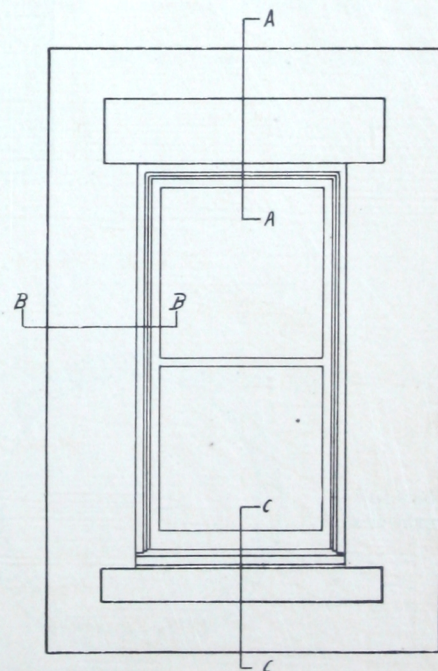
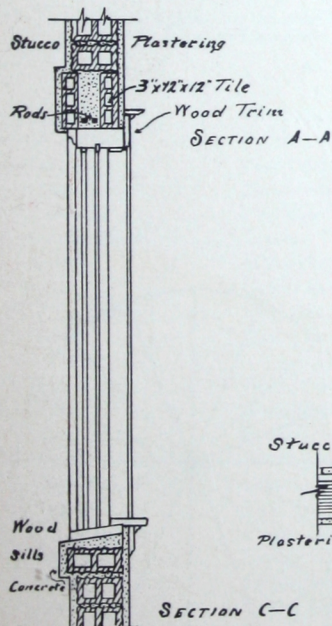
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THE WHITACRE FIREPROOFING COMPANY, WAYNESBURG, OHIO.

## WOOD FLOOR AND WINDOW CONSTRUCTION WITH JUMBO BRICK.



Floor and Window Construction.



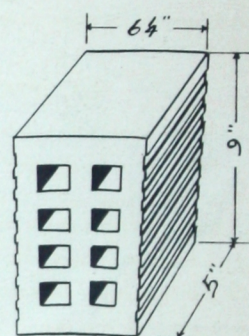
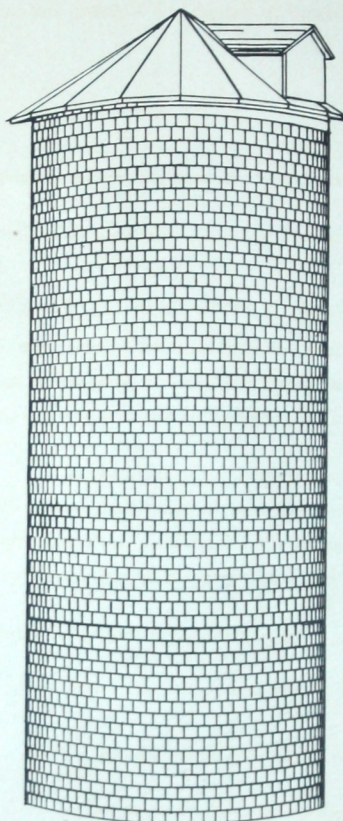
Window Details.



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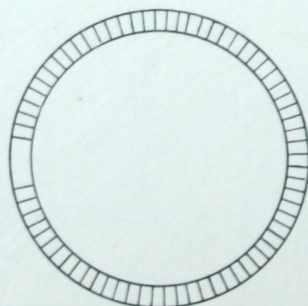
THE WHITACRE FIREPROOFING COMPANY, WAYNESBURG, OHIO.

## SILO BUILT OF HOLLOW RADIAL BRICK.

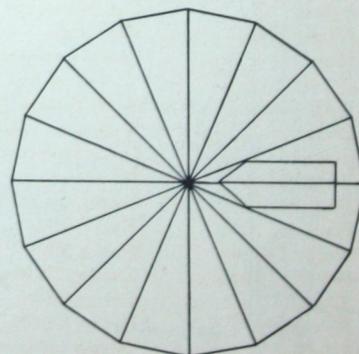


Silo Brick

Doors full  
height of silo



Cross Section



Roof Plan



WITHOUT OUR ESTIMATE YOU HAVE NO COMPETITION.

THE WHITACRE FIREPROOFING COMPANY, WAYNESBURG, OHIO.

## COMPARATIVE BIDS

Comparative bids on small 8-room house designed by Thorndyke & Kiessling, and estimates furnished by following contractors:

A. W. F. Kearns & Company	Boston
B. McDonald & Joslin Company	Boston
C. P. H. Jackson	Brockton
D. R. L. Donaldson	Lincoln
E. J. T. Wilson & Son	Nahant

A separate drawing showing the details of each type of outer wall construction was prepared, and each was accompanied by a set of complete specifications for the entire house.

Everything about the house, except the outer wall construction, was identical in all nine types and may be briefly covered by the following tables:

### DESCRIPTION OF VARIOUS TYPES OF OUTER WALL CONSTRUCTION

- Type No. 1—Frame covered with boards and finished with clapboards over building paper, inside surface furred, lathed and plastered.
- Type No. 2—Frame covered with boards and finished with shingles over building paper; inside surface furred, lathed and plastered.
- Type No. 3—A 10-inch brick wall, i. e., two 4-inch walls tied together with metal ties and separated by a 2-inch air space; inside surface plastered directly on the brickwork.
- Type No. 4—A 12-inch solid brick wall; inside surface furred, lathed and plastered.
- Type No. 5—Eight-inch hollow terra cotta blocks, stuccoed on the outside and plastered directly on the inside.
- Type No. 6—Six-inch hollow terra cotta blocks, finished with a 4-inch brick veneer on the outside and plastered directly on the inside.
- Type No. 7—Frame covered with boards and building paper, furred and covered with stucco on Clinton wire cloth; inside surface furred, lathed and plastered.
- Type No. 8—Frame covered with boards (building paper omitted) and finished with a 4-inch brick veneer on the outside; inside surface furred, lathed and plastered.
- Type No. 9—Frame finished on the outside with a 4-inch brick veneer tied directly to the studding (boarding omitted); inside surface furred, lathed and plastered.

### DETAILS COMMON TO ALL TYPES

A—Foundations	Local stone.
B—Cellar Floor	Finished with 2-inch concrete of Portland cement.
C—Chimney	Faced with brick costing \$17.50 per M.
D—Fireplaces	Faced with brick costing \$17.50 per M.
E—Plastering	First class "two coat" work.
F—Exterior Finish	Cypress.
G—Blinds	White pine.
H—Screens	Copper bronze on white pine frames.
I—Window Frames	Hard pine.
J—Floors	Double floors throughout with paper between, except in unfinished attic; Georgia pine upper floors; main hall on first floor of oak.
K—Inside Finish	North Carolina pine.
L—Doors	Washington cedar.
M—Hardware	Bronze finish of ordinary type, costing \$60.00 for the job.
N—Wood Mantels	\$45.00 each.
O—Conductors	Copper.
P—Flashing	Tin.
Q—Electric Fixtures	Costing \$80.00.
R—Hot Water Heating	Costing \$250.00 complete.
S—Wiring	Costing \$68.00.
T—Plumbing	Costing \$370.00.
U—Painting	Exterior and interior; clapboard house \$225.00; other houses \$130.00.
V—Glazing	Double thick German glass.



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## PRICE OF MATERIALS

Lime	\$1.00 per bbl. 200 lbs.
Portland Cement	\$1.60 per bbl.
Spruce Framing	\$26.00 per M. ft. B. M.
North Carolina Pine	1c per inch per ft.
Georgia Matched Pine (first quality)	\$75.00 per M. ft. B. M.
Shingles	\$4.75 per M.
Clapboards	\$55.00 per M.
Hemlock Boarding	\$22.00 per M. ft. B. M.
6-inch Hollow Blocks	10 3/4c per sq. ft.
8-inch Hollow Blocks	14c per sq. ft.
Face Brick	\$17.50 per M.
Common Brick	\$9.00 per M.
Allowance for Furring, Lathing and Plastering	5c per sq. ft.
Wages of bricklayers	.60c per hour
Wages of carpenters	.50c per hour

You may compare these figures with prices of similar material and labor in your own market, and you will then be in a position to apply a corresponding correction to the results of this investigation to make them applicable to your own neighborhood.

### LUMBER DISPLACED BY BRICK ON TYPES 3, 4, 5 AND 6

Frame and Studding, 2,300 ft., B. M., at \$26 per M.	\$59.80
Square edge boards, 2,500 ft., B. M., at \$22 per M.	55.00
Spruce Clapboard, requiring for manufacture 600 ft. of stock, B. M.	93.50
Total, 5,400 ft., B. M.	\$208.30

### COMPARATIVE BIDS.

Type No.	1	2	3	4	5	6	7	8	9
Description	Clapboard	Shingle	10-inch Brick Wall Hollow	12-inch Brick Wall Solid	Stucco on Hollow Block	Brick Veneer on Hollow Block	Stucco on Frame	Brick Veneer on Boarding	Brick Veneer on Studding
Bid A	\$6,732.00	\$	\$7,572.00	\$	\$7,416.00	\$7,777.00	\$6,857.00	\$7,130.00	\$7,080.00
Bid B	6,235.76	6,370.40	6,736.43	7,105.00	6,491.23	6,762.83	6,410.00	6,746.20	6,664.88
Bid C	6,692.00	6,786.00	7,118.00	7,418.00	7,179.00	7,238.00	6,847.50	6,970.00	6,895.00
Bid D	6,690.00		7,496.00	7,801.00	7,202.00	7,648.00	7,000.00	7,496.00	7,420.00
Bid E	7,450.00	7,450.00	7,940.00	8,240.00	7,650.00	7,990.00	7,650.00	7,790.00	7,710.00
Ave. of Bids	6,739.95	6,868.80	7,372.48	7,641.00	7,187.65	7,483.16	6,952.90	7,226.44	7,153.98

A comparison of these five bids with reference to the excess cost of the various types as compared with the clapboard house may be of interest.

### EXCESS COST OF EACH TYPE OVER CLAPBOARDS

#### By Percentages

Bid A	100.0		112.5		110.2	115.5	101.9	105.9	105.2
Bid B	100.0	102.1	108.0	113.9	104.1	108.4	102.8	108.2	106.9
Bid C	100.0	101.4	106.4	110.8	107.3	108.2	102.3	104.2	103.0
Bid D	100.0		112.0	116.6	107.7	114.3	104.7	112.0	110.9
Bid E	100.0	100.0	106.6	110.6	102.7	107.2	102.7	104.6	103.5
Ave. of Bids	100.0	101.6	109.1	113.0	106.3	110.7	102.9	106.9	105.8

### AVERAGE OF THE TWO MOST FAVORABLE BIDS

C	\$6,692.00	\$6,786.00	\$7,118.00	\$7,418.00	\$7,179.00	\$7,238.00	\$6,847.50	\$6,970.00	\$6,895.00
E	7,450.00	7,450.00	7,940.00	8,240.00	7,650.00	7,990.00	7,650.00	7,790.00	7,710.00
Average	7,071.00	7,118.00	7,529.00	7,829.00	7,414.50	7,614.00	7,248.75	7,380.00	7,302.50
Excess over Clapboards		47.00	458.00	758.00	343.50	543.00	177.75	309.00	231.50
Percentage Excess over Clapboards		.7	6.5	10.7	5.0	7.7	2.5	4.4	3.3



THE WHITACRE FIREPROOFING COMPANY, WAYNESBURG, OHIO.

While we consider these prices reliable and accurate, we do not guarantee the same, as the comparative price of cement, lime and labor may greatly change the above figures. But with the following information you can arrive very closely to the cost of a house built of the above material.

On the cost of a two story eight room ordinary dwelling house constructed of wood throughout compared with the same dwelling constructed of all fireproof material except the roof.

OUTSIDE WALLS . . . .	{	WOOD—Consists of wood studding, drop siding, wood lath and plaster, three coats of outside paint . . . . .	\$ .167	per sq. ft.
		FIREPROOF—Consists of 8" Hollow tile, { stucco outside, plaster inside . . . . .	8" standard partition . . . . .	.164 " "
			8" 4 cell dove tail partition . . . . .	.170 " "
			8" 6 cell dove tail partition . . . . .	.180 " "
FLOORS . . . . .	{	WOOD—Consists of 2x8 joist, bridging, rough floor, plastered ceiling, with finished floor on top . . . . .	.200	" "
		FIREPROOF—Consists of combination hollow tile and concrete, plastered ceiling and finished floor . . . . .	.300	" "
INSIDE PART	{	WOOD—Consists of wood studding and plastering two sides . . . . .	.080	" "
		FIREPROOF—Consists of 4" hollow tile and plastering two sides . . . . .	.140	" "

An ordinary two story eight room dwelling with:—

Approximate cost of Outside wall constructed of all wood.....			\$315.80
" " " Outside wall constructed of all fireproof.....	{ 8" standard partition.....	310.10	
	{ 8" 4 cell D. T.....	321.50	
	{ 8" 6 cell D. T.....	340.40	
	2 fls. & attic	2 fls. only	
" " " Floors constructed of all wood complete.....	\$432.00	\$288.00	
" " " " " fireproof complete.....	648.00	432.00	
" " " Partitions " " wood.....		144.00	
" " " " " fireproof.....		252.00	

First Construction.—Outside walls of 8" standard partition with stucco finish, 2 floors fireproof and fireproof partitions.	\$288.00
Second Construction.—Outside walls of 8" 6 cell dove tail partition with stucco finish, 2 floors and attic floor fireproof, with fireproof partitions.	348.00
Third Construction.—Outside walls of 8" standard partition with stucco finish, remaining portions wood construction.	None
Fourth Construction.—Outside walls of 8" 6 cell dove tail partition with stucco finish, remaining portions wood construction.	60.00



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The excess cost of the first fireproof construction would be no more than equal to the first repainting required in the wood construction, and in the second fireproof construction would not exceed two repaintings of the wood construction, not considering the constant repair which wood requires, besides the lower rates of insurance on the fireproof construction.

The approximate cost of the above house constructed of all wood is about \$2000.00 in which the first fireproof construction would not exceed 12% over wood construction, and in the second fireproof construction not over 17½% in excess of wood construction.

Note especially that this is an ordinary cheap residence and should its cost be increased \$2000.00, this would all be added to material other than the fireproofing, which would reduce the excess of fireproof construction to 6% and 9% respectively; and for each additional cost added to the structure, the percentages of difference are reduced because a fireproof construction in a cheap residence is just as expensive, just as good and just as thorough as in the most expensive. This is something that can not be said of any other construction.



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